



1764

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Hassan Taheri) PATENT APPLICATION
Curtis D. Dickinson
Paul A. Jacobson)

APPLICATION NO.: 09/920,981

) Group Art Unit: 1764
Confirmation No.: 6122

FILED: August 2, 2001

) Examiner: Unknown
) Name
)

FOR: FLOW REACTORS FOR CHEMICAL)
CONVERSIONS WITH
HETEROGENEOUS CATALYSTS)

Attorney Docket No.:
39000

RECEIVED
MAR 05 2003
GROUP 1700

INFORMATION DISCLOSURE STATEMENT

Commissioner
for Patents
Washington, D.C. 20231

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Sir:

In conformance with the requirements of 37 C.F.R. 1.56, 1.97, and 1.98, Applicants wish to call the Examiner's attention to the following art which may be material to the patentability of the present invention. Applicants respectfully request the Examiner to consider this art and make it of record in this application.

UNITED STATES PATENT DOCUMENTS

U.S. Patent No. 3,850,233

U.S. Patent No. 3,871,445

U.S. Patent No. 4,657,741

U.S. Patent No. 5,161,605

**ANY ADDITIONAL FEES REQUIRED
CHARGE TO DEPOSIT ACCOUNT
NO. 01-0528**

FOREIGN PATENT DOCUMENTS

German Patent No. 29 29 300

Japanese Patent No. 61-54229

OTHER

"An Alternative Method to Control the Longitudinal Temperature Profile in Packed Tubular Reactions (ING. CHIM. ITAL., v. 12, n.1-2, pp. 516, gennaio-febbraio 1976), authors P. Fontana and B. Canepa.

"Technology of Lurgi's Low Pressure Methanol Process" (CHEMTECH, July, 1973, pp. 430 – 435), author E. Supp.

"Variable Cross-Section Reactors for Highly Exothermic Reactions", Chemical Engineering Science, vol. 40, no. 6, pp. 1011-1017 (1985), author Akella, et. al.

INTERNATIONAL SEARCH REPORT

The following references were cited in the International Search Report for the corresponding PCT application PCT/US 02/22550 which was mailed November 25, 2002, and received by Applicants on November 27, 2002.. A copy of the International Search Report is enclosed.

FOREIGN PATENT DOCUMENTS

EP 1 033 167 A

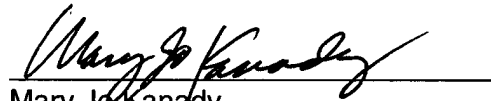
Patent Abstracts of Japan vol. 010, no. 214 (C-362), 25 July 1986 (1986-07-25) and JP 61 054229 A

GB 2 040 432 A

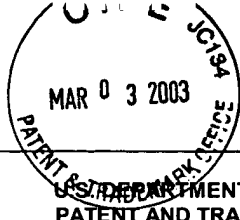
Copies of the references are enclosed. The cited references are also listed on a United States Patent and Trademark form PTO-1449 which is enclosed for the Examiner's convenience.

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Respectfully submitted,



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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

ATTY. DOCKET NO.
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SERIAL NO.
09/920,981

APPLICANT
Hassan Taheri, Curtis D. Dickinson, Paul A. Jacobson

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August 2, 2001

GROUP
1764; Confirmation No.:6122

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3	8	5	0	2	3	3	11/26/74	Oskar Wanka, et al.	165	107	6/18/73
	AB	3	8	7	1	4	4	5	3/18/75	Oskar Wanka, et al.	165	107	6/12/73
	AC	4	6	5	7	7	4	1	4/14/87	Rudolf Vogl	422	202	3/13/85
	AD	5	1	6	1	6	0	5	11/10/92	Friedrich Gutlhuber	165	1	12/13/88
	AE												
	AF												
	AG												
	AH												
	AI												

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	AL	2	9	2	9	3	0	0	1/29/81	Germany			X	
	AM	6	1	5	4	2	2	9	3/18/86	Japan			X	
	AN	1	0	3	3	1	6	7	9/6/2000	Europe			X	
	AO	2	0	4	0	4	3	2	8/28/80	Great Britain				
	AP													

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	"An Alternative Method to Control the Longitudinal Temperature Profile in Packed Tubular Reactions" (ING. CHIM. ITAL., v. 12, n.1-2, pp. 516, gennaio-febbraio 1976), authors P. Fontana and B. Canepa
	AS	"Technology of Lurgi's Low Pressure Methanol Process" (CHEMTECH, July, 1973, pp. 430 - 435), author E. Supp.
	AT	"Variable Cross-Section Reactors for Highly Exothermic Reactions", Chemical Engineering Science, vol. 40, no. 6, pp. 1011-1017 (1985), author Akella, et. al.
	AU	Patent Abstracts of Japan vol. 010, no. 214 (C-362), 25 July 1986 (1986-07-25) and JP 61 054229 A
	AV	

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.